

# SPECIFICATION CONTROL DRAWING

**55FB1522**

TITLE

TWO CONDUCTOR CABLE, SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS

Date

1-22-09

Revision

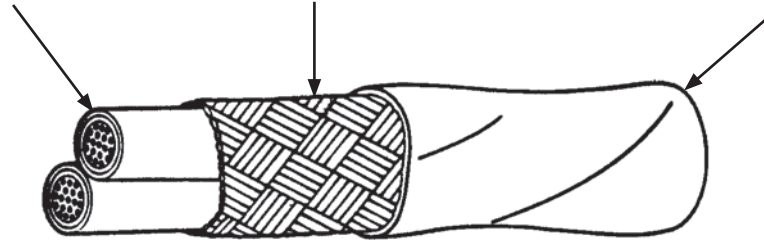
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This specification sheet forms a part of the latest issue of Raychem Specification 55F.

COMPONENT WIRES - 55FA0512

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED CONDUCTIVE ETFE



## CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)	JACKET FLEXURE ENDURANCE MANDREL DIAMETER (in.) (± 3%)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM		
55FB1522-22-*	22	38	.0060	.008	.134	.145	16.0	.250
55FB1522-20-*	20	38	.0060	.008	.150	.161	20.5	.250
55FB1522-18-*	18	38	.0060	.008	.172	.183	27.8	.250
55FB1522-16-*	16	38	.0060	.008	.188	.201	34.0	.325
55FB1522-14-*	14	38	.0070	.009	.224	.237	46.7	.325
55FB1522-12-*	12	38	.0070	.009	.259	.272	65.2	.500
55FB1522-10-*	10	38	.0070	.009	.307	.322	94.9	.500

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours

FLAMMABILITY: 3 seconds (maximum); 3 in. (maximum);  
no flaming of facial tissue

IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

JACKET COLOR: Black

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum)

JACKET FLAWS: Not Applicable

JACKET FLEXURE ENDURANCE: 10 cycles, no cracking

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND (DIELECTRIC):

Conductor to conductor and shield, 1500 volts (rms), 60 Hz

VOLTAGE WITHSTAND (Post Environmental): Not Applicable

### PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color. Violet shall be light violet and the designator shall be 7L.

Example: AWG 22, light violet and light violet with a blue stripe component wires, black jacket: 55FB1522-22-7L/7L6-0

NOTE: Nominal values are for information only.

Nominal values are not requirements.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx"). OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

Page 1 of 1

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DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.



Raychem Wire & Cable  
501 Oakside Avenue  
Redwood City, CA 94063-3800  
Phone: 1-800-227-8816  
Fax: 1-650-361-6297